

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|--|------------------|---------|---------------------|
| L1 | 2 | "20010007545" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/12/03 20:00 |
| L2 | 49 | ((pit\$3 or mark\$3) near5 (row or pattern or sequenc\$4)) with (BCA or (burst near3 cut\$4 near3 (area or region))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/12/03 20:02 |
| L3 | 67 | ((pit\$3 or mark\$3) near5 (row or pattern or sequenc\$4)) same (BCA or (burst near3 cut\$4 near3 (area or region))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/12/03 20:02 |
| L4 | 348 | (pit\$3 or mark\$3) near10 (BCA or (burst near3 cut\$4 near3 (area or region))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/12/03 20:02 |
| L5 | 211 | L4 and "369". clas. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/12/03 20:02 |

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|-----|------|---|--|----|-----|---------------------|
| L6 | 44 | ((repeat\$5 or iterat\$5 or duplicat\$5) near5 (data or information or suqenc\$4 or pattern or row or train)) with (BCA or (burst near3 cut\$4 near3 (area or region))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/12/03 20:02 |
| L7 | 37 | L6 not (L2 or L3 or L5) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/12/03 20:02 |
| L8 | 944 | (369/59.25).CCLS. | US-PGPUB; USPAT | OR | OFF | 2008/12/03 20:02 |
| L9 | 2288 | (369/275.3).CCLS. | US-PGPUB; USPAT | OR | OFF | 2008/12/03 20:02 |
| L10 | 1671 | (369/275.4).CCLS. | US-PGPUB; USPAT | OR | OFF | 2008/12/03 20:02 |
| L11 | 4084 | L8 or L9 or L10 | US-PGPUB; USPAT | OR | ON | 2008/12/03 20:02 |
| L12 | 9 | 6 and 11 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/12/03 20:03 |
| L13 | 348 | (pit\$3 or mark\$3) near10 (BCA or (burst near3 cut\$4 near3 (area or region))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/12/03 20:04 |
| L14 | 944 | (369/59.25).CCLS. | US-PGPUB; USPAT | OR | OFF | 2008/12/03 20:04 |
| L15 | 2288 | (369/275.3).CCLS. | US-PGPUB; USPAT | OR | OFF | 2008/12/03 20:04 |

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|-----|---------|--|--|----|-----|---------------------|
| L16 | 1671 | (369/275.4).CCLS. | US-PGPUB; USPAT | OR | OFF | 2008/12/03 20:04 |
| L17 | 4084 | L14 or L15 or L16 | US-PGPUB; USPAT | OR | ON | 2008/12/03 20:04 |
| L18 | 88 | L13 and L17 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/12/03 20:04 |
| L19 | 1 | 10/769756 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/12/03 20:08 |
| L20 | 1 | ("6414920").PN. | US-PGPUB; USPAT | OR | OFF | 2008/12/03 20:52 |
| L21 | 1 | ("6034937").PN. | US-PGPUB; USPAT | OR | OFF | 2008/12/03 20:52 |
| L22 | 1 | ("5688173").PN. | US-PGPUB; USPAT | OR | OFF | 2008/12/03 20:52 |
| S1 | 720 | (369/59.25).CCLS. | US-PGPUB; USPAT | OR | OFF | 2007/06/28 10:58 |
| S2 | 1774 | (369/275.3).CCLS. | US-PGPUB; USPAT | OR | OFF | 2006/09/20 16:26 |
| S3 | 1364 | (369/275.4).CCLS. | US-PGPUB; USPAT | OR | OFF | 2006/09/20 14:35 |
| S4 | 3189 | S1 or S2 or S3 | US-PGPUB; USPAT | OR | ON | 2006/09/20 14:36 |
| S5 | 1842 | S4 and (bca or ("burst cutting area") or bar code) | US-PGPUB; USPAT | OR | ON | 2006/09/21 13:54 |
| S6 | 1154791 | (bca or ("burst cutting area") or bar code) | US-PGPUB; USPAT | OR | ON | 2007/06/26 11:56 |
| S7 | 856 | wobbl\$3 near2 pit | US-PGPUB; USPAT | OR | ON | 2006/09/20 14:37 |

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|-----|---------|--|--------------------|----|-----|---------------------|
| S8 | 82 | S6 same S7 | US-PGPUB; USPAT | OR | ON | 2006/09/20 14:38 |
| S9 | 20 | S4 and S8 | US-PGPUB; USPAT | OR | ON | 2006/09/20 14:38 |
| S10 | 681550 | (bca or ("burst cutting area") or (bar aj2code)) | US-PGPUB; USPAT | OR | ON | 2006/09/20 16:09 |
| S11 | 27 | S7 same S10 | US-PGPUB; USPAT | OR | ON | 2006/09/20 15:39 |
| S12 | 5 | S4 and S11 | US-PGPUB; USPAT | OR | ON | 2006/09/20 14:40 |
| S13 | 1 | ("6813237").PN. | US-PGPUB; USPAT | OR | OFF | 2006/09/20 15:39 |
| S14 | 1154824 | (bca or ("burst cutting area") or (bar aj2 code)) | US-PGPUB; USPAT | OR | ON | 2006/09/20 16:12 |
| S15 | 82 | S7 same S14 | US-PGPUB; USPAT | OR | ON | 2006/09/20 16:10 |
| S16 | 20 | S15 and S4 | US-PGPUB; USPAT | OR | ON | 2006/09/20 16:11 |
| S17 | 55970 | (bca or ("burst cutting area") or (bar adj2 code)) | US-PGPUB; USPAT | OR | ON | 2006/09/21 13:10 |
| S18 | 67 | S7 and S17 | US-PGPUB; USPAT | OR | ON | 2006/09/20 16:12 |
| S19 | 28 | S4 and S18 | US-PGPUB; USPAT | OR | ON | 2006/09/20 16:12 |
| S20 | 54 | S2 and ((BCA or "burst cutting area") and ((pit or wobbl\$3) near2 pattern or array or line)) | US-PGPUB; USPAT | OR | ON | 2006/09/20 16:31 |
| S21 | 34 | S2 and ((BCA or "burst cutting area") and ((pit or wobbl\$3) near2 pattern or array)) | US-PGPUB; USPAT | OR | ON | 2006/09/20 16:31 |
| S22 | 301 | pit adj2 wobble | US-PGPUB; USPAT | OR | ON | 2006/09/21 09:28 |
| S23 | 950 | "pit patterns" | US-PGPUB; USPAT | OR | ON | 2006/09/21 09:29 |
| S24 | 720 | (369/59.25).CCLS. | US-PGPUB; USPAT | OR | OFF | 2006/09/21 09:29 |

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|-----|------|--|--------------------|----|-----|---------------------|
| S25 | 1776 | (369/275.3).CCLS. | US-PGPUB; USPAT | OR | OFF | 2006/09/21 09:29 |
| S26 | 1364 | (369/275.4).CCLS. | US-PGPUB; USPAT | OR | OFF | 2006/09/21 09:29 |
| S27 | 3191 | S24 or S25 or S26 | US-PGPUB; USPAT | OR | ON | 2006/09/21 09:29 |
| S28 | 261 | S23 and S27 | US-PGPUB; USPAT | OR | ON | 2006/09/21 09:31 |
| S29 | 286 | S23 same (multiple or plurality or two or three) | US-PGPUB; USPAT | OR | ON | 2006/09/21 09:51 |
| S30 | 80 | S27 and S29 | US-PGPUB; USPAT | OR | ON | 2006/09/21 09:32 |
| S31 | 1 | ("4991363").PN. | US-PGPUB; USPAT | OR | OFF | 2006/09/21 09:59 |
| S33 | 5 | "9858368" | US-PGPUB; USPAT | OR | ON | 2006/09/21 13:04 |
| S34 | 1 | ("6069869").PN. | US-PGPUB; USPAT | OR | OFF | 2006/09/21 13:04 |
| S35 | 8120 | bca or ("burst cutting area") | US-PGPUB; USPAT | OR | ON | 2007/06/26 11:08 |
| S36 | 524 | modulation same (wobbl\$3 and pit) | US-PGPUB; USPAT | OR | ON | 2006/09/21 13:11 |
| S37 | 42 | S35 and S36 | US-PGPUB; USPAT | OR | ON | 2006/09/21 13:11 |
| S38 | 720 | (369/59.25).CCLS. | US-PGPUB; USPAT | OR | OFF | 2006/09/21 13:54 |
| S39 | 1776 | (369/275.3).CCLS. | US-PGPUB; USPAT | OR | OFF | 2006/09/21 13:54 |
| S40 | 1364 | (369/275.4).CCLS. | US-PGPUB; USPAT | OR | OFF | 2006/09/21 13:54 |
| S41 | 3191 | S38 or S39 or S40 | US-PGPUB; USPAT | OR | ON | 2006/09/21 13:54 |
| S42 | 122 | S41 and (bca or ("burst cutting area")) | US-PGPUB; USPAT | OR | ON | 2006/09/21 13:54 |

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|-----|------|---|--------------------|----|-----|---------------------|
| S43 | 859 | wobbl\$3 near2 pit | US-PGPUB; USPAT | OR | ON | 2006/09/21 13:55 |
| S44 | 26 | S42 and S43 | US-PGPUB; USPAT | OR | ON | 2006/09/21 13:55 |
| S45 | 902 | (different or multiple or numerous or plurality or two or three or four) SAME (pit ADJ3 (pattern or design or formation)) | US-PGPUB; USPAT | OR | ON | 2006/09/21 13:59 |
| S46 | 251 | S41 and S45 | US-PGPUB; USPAT | OR | ON | 2006/09/21 13:59 |
| S47 | 59 | S43 and S46 | US-PGPUB; USPAT | OR | ON | 2006/09/21 14:51 |
| S48 | 0 | (lead ADJ2 in) SAME (pit ADJ2 pattern) | US-PGPUB; USPAT | OR | ON | 2006/09/21 14:52 |
| S49 | 69 | (lead-in) SAME (pit ADJ2 pattern) | US-PGPUB; USPAT | OR | ON | 2006/09/26 13:58 |
| S50 | 1 | ("5815480").URPN. | USPAT | OR | ON | 2006/09/21 15:39 |
| S51 | 2 | 10/769987 | US-PGPUB; USPAT | OR | ON | 2006/09/25 09:39 |
| S52 | 1 | ("6128272").PN. | US-PGPUB; USPAT | OR | OFF | 2006/09/25 09:53 |
| S53 | 1 | ("6813237").PN. | US-PGPUB; USPAT | OR | OFF | 2006/09/25 10:00 |
| S54 | 1 | ("5337301").PN. | US-PGPUB; USPAT | OR | OFF | 2006/09/25 10:08 |
| S56 | 1 | 10/381106 | US-PGPUB; USPAT | OR | ON | 2006/09/25 10:12 |
| S57 | 1 | ("6069869").PN. | US-PGPUB; USPAT | OR | OFF | 2006/09/25 10:19 |
| S58 | 8120 | bca or "burst cutting area" | US-PGPUB; USPAT | OR | ON | 2006/09/25 10:20 |
| S59 | 1668 | pit ADJ2 (pattern or array or arrangement or design) | US-PGPUB; USPAT | OR | ON | 2006/09/25 10:21 |
| S60 | 1996 | (pit or wobbl\$3) ADJ2 (pattern or array or arrangement or design) | US-PGPUB; USPAT | OR | ON | 2006/09/25 10:23 |

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| S61 | 73 | S58 and S60 | US-PGPUB; USPAT | OR | ON | 2006/09/25 10:55 |
| S62 | 1 | 10/417211 | US-PGPUB; USPAT | OR | ON | 2006/09/25 12:34 |
| S63 | 1 | ("6813237").PN. | US-PGPUB; USPAT | OR | OFF | 2006/09/25 12:36 |
| S64 | 1 | ("6052465").PN. | US-PGPUB; USPAT | OR | OFF | 2006/09/25 12:39 |
| S65 | 0 | (bar ADJ1 code) ADJ3 "pit pattern" | US-PGPUB; USPAT | OR | ON | 2006/09/25 12:40 |
| S66 | 12 | (bar ADJ1 code) ADJ3 (pit or wobbl\$3) | US-PGPUB; USPAT | OR | ON | 2006/09/25 12:44 |
| S67 | 1 | 10/417211 | US-PGPUB; USPAT | OR | ON | 2006/09/25 12:57 |
| S68 | 720 | (369/59.25).CCLS. | US-PGPUB; USPAT | OR | OFF | 2006/09/25 12:57 |
| S69 | 1776 | (369/275.3).CCLS. | US-PGPUB; USPAT | OR | OFF | 2006/09/25 12:57 |
| S70 | 1364 | (369/275.4).CCLS. | US-PGPUB; USPAT | OR | OFF | 2006/09/25 12:57 |
| S72 | 133 | (different or multiple or plurality or second or third or various) ADJ2 (pit adj2 (pattern or array or line or arrangement)) | US-PGPUB; USPAT | OR | ON | 2006/09/25 13:01 |
| S73 | 3191 | S68 S69 S70 | US-PGPUB; USPAT | OR | ON | 2006/09/25 13:01 |
| S74 | 39 | S72 and S73 | US-PGPUB; USPAT | OR | ON | 2006/09/25 13:33 |
| S75 | 2 | 10/193991 | US-PGPUB; USPAT | OR | ON | 2006/09/25 13:38 |
| S76 | 28 | tomita-yoshimi.in. | US-PGPUB; USPAT | OR | ON | 2006/09/25 13:39 |
| S77 | 1 | ("6930977").PN. | US-PGPUB; USPAT | OR | OFF | 2006/09/26 08:43 |
| S78 | 1 | ("6343062").PN. | US-PGPUB; USPAT | OR | OFF | 2006/09/26 08:43 |

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| S79 | 1 | ("5617408").PN. | US-PGPUB; USPAT | OR | OFF | 2006/09/26 14:01 |
| S80 | 1 | ("6069869").PN. | US-PGPUB; USPAT | OR | OFF | 2006/09/26 15:02 |
| S82 | 196 | (bar adj2 code) near2 (pit or wobbl\$3 or modulat\$5) | US-PGPUB; USPAT | OR | ON | 2006/09/27 08:19 |
| S83 | 6 | S82 and (bca or "burst cutting area") | US-PGPUB; USPAT | OR | ON | 2006/09/26 15:03 |
| S84 | 184 | (bar adj2 code) near2 modulat\$5 | US-PGPUB; USPAT | OR | ON | 2006/09/26 15:25 |
| S85 | 8 | S84 and "369".clas. | US-PGPUB; USPAT | OR | ON | 2006/09/26 15:41 |
| S86 | 56188 | (bar adj2 code) or (bca or "burst cutting area") | US-PGPUB; USPAT | OR | ON | 2006/09/26 15:42 |
| S87 | 13665 | "run-length limited" or RLL or "bi-phase modulation" or "phase-shift keying" or PSK | US-PGPUB; USPAT | OR | ON | 2006/09/27 09:01 |
| S88 | 13 | S86 same S87 | US-PGPUB; USPAT | OR | ON | 2006/09/26 15:44 |
| S89 | 1 | ("6930977").PN. | US-PGPUB; USPAT | OR | OFF | 2006/09/27 08:29 |
| S90 | 0 | ("(multipleorpluralityornumerousortwoorthree)NEARmodulat\$5").PN. | US-PGPUB; USPAT | OR | OFF | 2006/09/27 08:30 |
| S91 | 18093 | (multiple or plurality or numerous or two or three) NEAR modulat \$5 | US-PGPUB; USPAT | OR | ON | 2006/09/27 08:54 |
| S92 | 99 | (369/124.04).CCLS. | US-PGPUB; USPAT | OR | OFF | 2006/09/27 08:54 |
| S93 | 1366 | (369/275.4).CCLS. | US-PGPUB; USPAT | OR | OFF | 2006/09/27 08:54 |
| S94 | 1463 | S92 or S93 | US-PGPUB; USPAT | OR | ON | 2006/09/27 08:55 |
| S95 | 41 | S91 and S94 | US-PGPUB; USPAT | OR | ON | 2006/09/27 08:55 |
| S96 | 78 | ("run-length limited" or RLL) and ("bi-phase modulation" or "phase-shift keying" or PSK) | US-PGPUB; USPAT | OR | ON | 2006/09/27 09:04 |

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|------|------|--|--------------------|----|-----|---------------------|
| S97 | 15 | S94 and S96 | US-PGPUB; USPAT | OR | ON | 2006/09/27 09:24 |
| S98 | 2 | 10/769986 | US-PGPUB; USPAT | OR | ON | 2006/09/27 14:08 |
| S99 | 1 | ("6069869").PN. | US-PGPUB; USPAT | OR | OFF | 2006/09/27 16:33 |
| S100 | 303 | lee-kyung-geun.in. | US-PGPUB; USPAT | OR | ON | 2006/09/27 16:37 |
| S101 | 337 | lee-kyung-geun.in. | US-PGPUB; USPAT | OR | ON | 2007/02/23 12:17 |
| S102 | 108 | (369/124.04).CCLS. | US-PGPUB; USPAT | OR | OFF | 2007/02/23 12:17 |
| S103 | 1396 | (369/275.4).CCLS. | US-PGPUB; USPAT | OR | OFF | 2007/02/23 12:17 |
| S104 | 1501 | S102 or S103 | US-PGPUB; USPAT | OR | ON | 2007/02/23 12:17 |
| S105 | 89 | ("run-length limited" or RLL) and ("bi-phase modulation" or "phase-shift keying" or PSK) | US-PGPUB; USPAT | OR | ON | 2007/02/23 12:17 |
| S106 | 16 | S104 and S105 | US-PGPUB; USPAT | OR | ON | 2007/02/23 12:17 |
| S107 | 998 | "pit patterns" | US-PGPUB; USPAT | OR | ON | 2007/02/23 12:17 |
| S108 | 770 | (369/59.25).CCLS. | US-PGPUB; USPAT | OR | OFF | 2007/02/23 12:17 |
| S109 | 1866 | (369/275.3).CCLS. | US-PGPUB; USPAT | OR | OFF | 2007/02/23 12:17 |
| S110 | 1396 | (369/275.4).CCLS. | US-PGPUB; USPAT | OR | OFF | 2007/02/23 12:17 |
| S111 | 3334 | S108 or S109 or S110 | US-PGPUB; USPAT | OR | ON | 2007/02/23 12:17 |
| S112 | 308 | S107 same (multiple or plurality or two or three) | US-PGPUB; USPAT | OR | ON | 2007/02/23 12:17 |
| S113 | 82 | S111 and S112 | US-PGPUB; USPAT | OR | ON | 2007/02/23 12:17 |

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|------|-----|---|--|----|----|---------------------|
| S114 | 2 | 10/769986 | US-PGPUB; USPAT | OR | ON | 2007/06/26 11:09 |
| S115 | 1 | 10/769756 | US-PGPUB; USPAT | OR | ON | 2007/06/26 11:10 |
| S116 | 2 | 10/769986 | US-PGPUB; USPAT | OR | ON | 2007/06/26 11:40 |
| S117 | 39 | (bca or ("burst cutting area")) with ((repeat\$3 or duplicat\$4 or equivalent or identical or interchangeable) near5 (information or sequence or pits or pattern or data)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2007/06/26 13:55 |
| S118 | 199 | (bca or ("burst cutting area")) same ((repeat\$3 or duplicat\$4 or equivalent or identical or interchangeable) with (information or sequence or pits or bits or byte or pattern or data)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2007/06/26 13:45 |
| S119 | 78 | S118 and "369".clas. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2007/06/26 12:09 |
| S120 | 59 | S119 not S117 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2007/06/26 12:09 |
| S121 | 6 | ("4672613" "5333126" "5502699" "5557594" "5604727" "5696745").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/06/26 12:23 |
| S122 | 8 | ("6414920").URPN. | USPAT | OR | ON | 2007/06/26 12:24 |
| S123 | 5 | ("5914928" "6188538" "6301208" "6332204" "6414920").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/06/26 12:26 |

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|------|------|--|--|----|-----|---------------------|
| S124 | 808 | (369/59.25).OCLS. | US-PGPUB; USPAT | OR | OFF | 2007/06/26 13:10 |
| S125 | 1976 | (369/275.3).OCLS. | US-PGPUB; USPAT | OR | OFF | 2007/06/26 13:10 |
| S126 | 1447 | (369/275.4).OCLS. | US-PGPUB; USPAT | OR | OFF | 2007/06/26 13:10 |
| S127 | 3510 | S124 or S125 or S126 | US-PGPUB; USPAT | OR | ON | 2007/06/26 13:10 |
| S128 | 24 | S118 and S127 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2007/06/26 13:10 |
| S129 | 214 | ((bca or ("burst cutting area")) same ((repeat\$4 or duplicat\$4 or equivalent or identical or interchangeable) with (information or sequence or pits or bits or byte or pattern or data)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2007/06/26 13:46 |
| S130 | 15 | S129 not S118 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2007/06/26 13:46 |
| S131 | 15 | ((bca or "burst cutting area") same (lead-in or (lead adj2 in)) same (data or user) same (lead-out or (lead adj2 out))) and ((repeat\$3 or duplicat\$4 or equivalent or identical or interchangeable) near5 ((control\$3 or manufactur\$3) near2 (data or information))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2007/06/26 14:09 |
| S132 | 1 | ("6930977").PN. | US-PGPUB; USPAT | OR | OFF | 2007/06/26 14:11 |

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|------|------|---|--|----|-----|---------------------|
| S133 | 2 | "20030053404" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2007/06/27 11:27 |
| S134 | 2 | "20010007545" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2007/06/27 11:27 |
| S135 | 354 | lee-kyung-geun.in. | US-PGPUB; USPAT | OR | ON | 2007/06/27 11:59 |
| S136 | 2 | "20030053404" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2007/06/28 11:19 |
| S137 | 1 | ((analog near2 digital) or (A/D)) and (convert\$3 or chang\$3) and (focus\$3) and (voltage) and (duty) and (positive or upper) and (negative or lower) and (upcount\$4 or increment\$4)).clm. | US-PGPUB | OR | ON | 2007/06/28 11:26 |
| S138 | 1 | ("20010007545").PN. | US-PGPUB; USPAT | OR | OFF | 2007/07/15 18:35 |
| S139 | 816 | (369/59.25).CCLS. | US-PGPUB; USPAT | OR | OFF | 2007/07/15 19:16 |
| S140 | 1984 | (369/275.3).CCLS. | US-PGPUB; USPAT | OR | OFF | 2007/07/15 19:16 |
| S141 | 1458 | (369/275.4).CCLS. | US-PGPUB; USPAT | OR | OFF | 2007/07/15 19:16 |
| S142 | 3532 | S139 or S140 or S141 | US-PGPUB; USPAT | OR | ON | 2007/07/15 19:16 |
| S143 | 2107 | S142 and (bca or ("burst cutting area") or bar code) | US-PGPUB; USPAT | OR | ON | 2007/07/15 19:16 |

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|------|----|--|--|----|-----|---------------------|
| S144 | 15 | ((bca or "burst cutting area") same (lead-in or (lead adj2 in)) same (data or user) same (lead-out or (lead adj2 out))) and ((repeat\$3 or duplicat\$4 or equivalent or identical or interchangeable) near5 ((control\$3 or manufactur\$3) near2 (data or information))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2007/07/15 19:16 |
| S145 | 23 | (repeat\$3 or duplicat\$3) with ((control\$4 or disc) near2 (information or data)) with ((lead-in) or (lead adj2 in)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2007/07/25 10:04 |
| S146 | 26 | (repeat\$3 or duplicat\$3) with (control\$3 near2 (data or information)) same ((lead-in) or (lead adj2 in)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2007/07/25 10:11 |
| S147 | 10 | S146 not S145 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2007/07/25 10:05 |
| S148 | 30 | (repeat\$4 or duplicat\$3) with (control\$3 near2 (data or information)) same ((lead-in) or (lead adj2 in)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2007/07/25 10:12 |
| S149 | 3 | S148 not (S145 or S146) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2007/07/25 11:01 |
| S150 | 1 | ("20040010745").PN. | US-PGPUB; USPAT | OR | OFF | 2007/07/25 11:01 |

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| S151 | 1 | ("20040022150").PN. | US-PGPUB; USPAT | OR | OFF | 2007/07/25 11:01 |
| S152 | 1 | ("20010007545").PN. | US-PGPUB; USPAT | OR | OFF | 2008/01/14 11:15 |
| S153 | 1 | ("20030053404").PN. | US-PGPUB; USPAT | OR | OFF | 2008/01/14 11:15 |
| S154 | 1346756 | (bca or ("burst cutting area") or bar code) | US-PGPUB; USPAT | OR | ON | 2008/01/14 12:51 |
| S155 | 1009 | wobb1\$3 near2 pit | US-PGPUB; USPAT | OR | ON | 2008/01/14 12:51 |
| S156 | 90 | S154 same S155 | US-PGPUB; USPAT | OR | ON | 2008/01/14 12:51 |
| S157 | 68152 | (bca or ("burst cutting area") or (bar adj2 code)) | US-PGPUB; USPAT | OR | ON | 2008/01/14 12:51 |
| S158 | 79 | S155 and S157 | US-PGPUB; USPAT | OR | ON | 2008/01/14 12:51 |
| S159 | 27 | (repeat\$3 or duplicat\$3) with ((control\$4 or disc) near2 (information or data)) with ((lead-in) or (lead adj2 in)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/14 12:51 |
| S160 | 26 | (repeat\$3 or duplicat\$3) with (control\$3 near2 (data or information)) same ((lead-in) or (lead adj2 in)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/14 12:51 |
| S161 | 30 | (repeat\$4 or duplicat\$3) with (control\$3 near2 (data or information)) same ((lead-in) or (lead adj2 in)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/14 12:51 |

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| S162 | 3 | S161 not (S159 or S160) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/01/14 12:51 |
| S163 | 18 | ((bca or "burst cutting area") same (lead-in or (lead adj2 in)) same (data or user) same (lead-out or (lead adj2 out))) and ((repeat\$3 or duplicat\$4 or equivalent or identical or interchangeable) near5 ((control\$3 or manufactur\$3) near2 (data or information))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/01/14 12:51 |
| S164 | 1 | ("6657929").PN. | US-PGPUB; USPAT | OR | OFF | 2008/01/14 14:08 |
| S165 | 0 | (2001/0007545).CCLS. | US-PGPUB; USPAT | OR | OFF | 2008/01/29 10:26 |
| S166 | 2 | 2001/0007545 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/01/29 10:26 |
| S167 | 2 | "20010007545" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/01/29 10:34 |
| S168 | 2 | "20030053404" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/01/29 10:34 |
| S169 | 854 | (369/59.25).CCLS. | US-PGPUB; USPAT | OR | OFF | 2008/01/29 12:07 |
| S170 | 2077 | (369/275.3).CCLS. | US-PGPUB; USPAT | OR | OFF | 2008/01/29 12:07 |

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|------|---------|--|--|----|-----|---------------------|
| S171 | 1545 | (369/275.4).OCLS. | US-PGPUB; USPAT | OR | OFF | 2008/01/29 12:07 |
| S172 | 3715 | S169 or S170 or S171 | US-PGPUB; USPAT | OR | ON | 2008/01/29 12:07 |
| S173 | 1352721 | (bca or ("burst cutting area") or bar code) | US-PGPUB; USPAT | OR | ON | 2008/01/29 12:07 |
| S174 | 1018 | wobb\$3 near2 pit | US-PGPUB; USPAT | OR | ON | 2008/01/29 12:07 |
| S175 | 90 | S173 same S174 | US-PGPUB; USPAT | OR | ON | 2008/01/29 12:07 |
| S176 | 24 | S172 and S175 | US-PGPUB; USPAT | OR | ON | 2008/01/29 12:07 |
| S177 | 771445 | (bca or ("burst cutting area") or (bar aj2code)) | US-PGPUB; USPAT | OR | ON | 2008/01/29 12:07 |
| S178 | 33 | S174 same S177 | US-PGPUB; USPAT | OR | ON | 2008/01/29 12:07 |
| S179 | 8 | S172 and S178 | US-PGPUB; USPAT | OR | ON | 2008/01/29 12:07 |
| S180 | 18 | ((bca or "burst cutting area") same (lead-in or (lead adj2 in)) same (data or user) same (lead-out or (lead adj2 out))) and ((repeat\$3 or duplicat\$4 or equivalent or identical or interchangeable) near5 ((control\$3 or manufactur\$3) near2 (data or information))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/01/29 12:08 |
| S181 | 31 | (repeat\$4 or duplicat\$3) with (control\$3 near2 (data or information)) same ((lead-in) or (lead adj2 in)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/01/29 12:09 |
| S182 | 1 | S180 and S181 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/01/29 12:09 |

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| S183 | 50 | bca near2 pit | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/03/19 19:49 |
| S184 | 4 | DVD near2 pits near5 (BCA or burst) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/03/19 19:50 |
| S185 | 8 | DVD near10 pits near5 (BCA or burst) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/03/19 19:50 |
| S186 | 1 | ("6414920").PN. | US-PGPUB; USPAT | OR | OFF | 2008/03/20 11:29 |
| S187 | 1 | ("6034937").PN. | US-PGPUB; USPAT | OR | OFF | 2008/03/20 11:29 |
| S188 | 1 | ("5688173").PN. | US-PGPUB; USPAT | OR | OFF | 2008/03/20 11:30 |
| S189 | 37 | ((pit\$3 or mark\$3) near5 (row or pattern or sequenc\$4)) with (BCA or (burst near3 cut\$4 near3 (area or region))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/04/29 21:09 |
| S190 | 31 | S189 and "369".clas. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/04/29 21:09 |

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| S191 | 37 | ((pit\$3 or mark\$3) near5 (row or pattern or sequenc\$4)) with (BCA or (burst near3 cut\$4 near3 (area or region))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/04/30 11:14 |
| S192 | 31 | S191 and "369".clas. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/04/30 11:14 |
| S193 | 6 | S191 not S192 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/04/30 11:19 |
| S194 | 55 | ((pit\$3 or mark\$3) near5 (row or pattern or sequenc\$4)) same (BCA or (burst near3 cut\$4 near3 (area or region))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/04/30 11:32 |
| S195 | 18 | S194 not S191 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/04/30 11:33 |
| S196 | 10 | S195 and "369".clas. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/04/30 11:34 |

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| S197 | 8 | S195 not S196 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/04/30 11:43 |
| S198 | 382 | (pit\$3 or mark\$3) with (BCA or (burst near3 cut\$4 near3 (area or region))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/04/30 11:43 |
| S199 | 302 | (pit\$3 or mark\$3) near10 (BCA or (burst near3 cut\$4 near3 (area or region))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/04/30 11:45 |
| S200 | 183 | S199 and "369".clas. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/04/30 11:46 |
| S201 | 145 | S200 not(S191 or S194) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/04/30 11:47 |
| S202 | 145 | S200 not (S191 or S194) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/04/30 11:47 |

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| S203 | 37 | ((repeat\$5 or iterat\$5 or duplicat\$5) near5 (data or information or suqenc\$4 or pattern or row or train)) with (BCA or (burst near3 cut\$4 near3 (area or region))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/04/30 12:51 |
| S204 | 31 | S203 not (S191 or S194 or S200) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/04/30 12:55 |
| S205 | 1 | ("20010006575").PN. | US-PGPUB; USPAT | OR | OFF | 2008/05/05 13:23 |
| S206 | 887 | (369/59.25).CCLS. | US-PGPUB; USPAT | OR | OFF | 2008/05/05 13:23 |
| S207 | 2143 | (369/275.3).CCLS. | US-PGPUB; USPAT | OR | OFF | 2008/05/05 13:23 |
| S208 | 1597 | (369/275.4).CCLS. | US-PGPUB; USPAT | OR | OFF | 2008/05/05 13:23 |
| S209 | 3843 | S206 or S207 or S208 | US-PGPUB; USPAT | OR | ON | 2008/05/05 13:23 |
| S210 | 385 | (pit\$3 or mark\$3) with (BCA or (burst near3 cut\$4 near3 (area or region))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/05/05 13:24 |
| S211 | 2 | "20030053404" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/05/05 13:31 |

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| S212 | 2 | "20010007545" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/05/05 16:43 |
| S213 | 1 | ("20030185134").PN. | US-PGPUB; USPAT | OR | OFF | 2008/05/06 10:46 |
| S214 | 2 | "20010006575" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/06/09 11:04 |
| S215 | 2 | "20010007545" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/06/09 12:30 |
| S216 | 1 | 10/769756 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/06/09 13:03 |
| S217 | 78366 | (sector or block or unit or cluster or frame) with (header or ((run-in\$2) or (run adj2 in\$2))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/06/09 13:07 |
| S218 | 353 | (sector or block or unit or cluster or frame) with (header or ((run-in\$2) or (run adj2 in\$2))) with (run-out\$2 or (run adj2 out\$2)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/06/09 13:11 |

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| S219 | 206 | S218 and "369".clas. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/06/09 13:12 |
| S220 | 14 | (sector or block or unit or cluster or frame) with (header or ((run-in\$2) or (run adj2 in\$2))) with (run-out\$2 or (run adj2 out\$2)) with ((identical or exact or "same") near5 (pattern or data or sequence or pit\$2)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/06/09 13:37 |
| S221 | 5 | (sector or block or unit or cluster or frame) with (header or ((run-in\$2) or (run adj2 in\$2))) with (run-out\$2 or (run adj2 out\$2)) with (00h) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/06/09 13:42 |
| S222 | 399 | (pit\$3 or mark\$3) with (BCA or (burst near3 cut\$4 near3 (area or region))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/06/09 13:57 |
| S223 | 40 | ((pit\$3 or mark\$3) near5 (row or pattern or sequenc\$4)) with (BCA or (burst near3 cut\$4 near3 (area or region))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/06/09 13:57 |
| S224 | 58 | ((pit\$3 or mark\$3) near5 (row or pattern or sequenc\$4)) same (BCA or (burst near3 cut\$4 near3 (area or region))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/06/09 13:57 |

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|------|-----|--|--|----|----|---------------------|
| S225 | 312 | ((pit\$3 or mark\$3) near10 (BCA or (burst near3 cut\$4 near3 (area or region))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/06/09 13:57 |
| S226 | 190 | S225 and "369".clas. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/06/09 13:57 |
| S227 | 43 | ((repeat\$5 or iterat\$5 or duplicat\$5) near5 (data or information or sequenc\$4 or pattern or row or train)) with (BCA or (burst near3 cut\$4 near3 (area or region))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/06/09 13:57 |
| S228 | 37 | S227 not (S223 or S224 or S226) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/06/09 13:57 |
| S229 | 1 | 11/812881 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/06/09 14:28 |
| S230 | 48 | ((pit\$3 or mark\$3) near5 (row or pattern or sequenc\$4)) with (BCA or (burst near3 cut\$4 near3 (area or region))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/11/19 15:55 |

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| S231 | 66 | ((pit\$3 or mark\$3) near5 (row or pattern or sequenc\$4)) same (BCA or (burst near3 cut\$4 near3 (area or region))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/11/19 15:55 |
| S232 | 346 | (pit\$3 or mark\$3) near10 (BCA or (burst near3 cut\$4 near3 (area or region))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/11/19 15:55 |
| S233 | 209 | S232 and "369".clas. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/11/19 15:55 |
| S234 | 44 | ((repeat\$5 or iterat\$5 or duplicat\$5) near5 (data or information or suqenc\$4 or pattern or row or train)) with (BCA or (burst near3 cut\$4 near3 (area or region))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/11/19 15:55 |
| S235 | 37 | S234 not (S230 or S231 or S233) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/11/19 15:55 |
| S236 | 941 | (369/59.25).CCLS. | US-PGPUB; USPAT | OR | OFF | 2008/11/19 15:55 |
| S237 | 2277 | (369/275.3).CCLS. | US-PGPUB; USPAT | OR | OFF | 2008/11/19 15:55 |
| S238 | 1668 | (369/275.4).CCLS. | US-PGPUB; USPAT | OR | OFF | 2008/11/19 15:55 |
| S239 | 4070 | S236 or S237 or S238 | US-PGPUB; USPAT | OR | ON | 2008/11/19 15:55 |

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| S240 | 48 | ((pit\$3 or mark\$3) near5 (row or pattern or sequenc\$4)) with (BCA or (burst near3 cut\$4 near3 (area or region))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/11/19 15:56 |
| S241 | 66 | ((pit\$3 or mark\$3) near5 (row or pattern or sequenc\$4)) same (BCA or (burst near3 cut\$4 near3 (area or region))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/11/19 15:56 |
| S242 | 346 | (pit\$3 or mark\$3) near10 (BCA or (burst near3 cut\$4 near3 (area or region))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/11/19 15:56 |
| S243 | 209 | S242 and "369".clas. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/11/19 15:56 |
| S244 | 44 | ((repeat\$5 or iterat\$5 or duplicat\$5) near5 (data or information or suqenc\$4 or pattern or row or train)) with (BCA or (burst near3 cut\$4 near3 (area or region))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/11/19 15:56 |
| S245 | 37 | S244 not (S240 or S241 or S243) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/11/19 15:56 |

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| S246 | 9 | S234 and S239 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/11/19 15:57 |
| S247 | 87 | S232 and S239 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB | OR | ON | 2008/11/19 15:58 |

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